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"operating system" and task and "priority level"

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[\[PDF\]](#) [*A Linux-based real-time operating system](#)

M Barabanov - 1997 - citeseerx.ist.psu.edu

... The REAL/IX **operating system** from MODCOMP 4] is monolithic ... the lowest **priority level**. ...

Each real-time **task** was presented to the system as an object module in the ...

[Cited by 189](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 20 versions](#)

[StarOS, a multiprocessor operating system for the support of task forces](#)

AK Jones, RJ Chansier Jr, I Durham, K Schwans, SR ... - Proceedings of the seventh ACM symposium on Operating ..., 1979 - portal.acm.org

... understand the design issues related to **operating system** facilities that support

task forces. A limited Version of StarOS has been running since 1977. ...

[Cited by 106](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[On-line scheduling of hard deadline aperiodic tasks infixed-priority systems](#)

S Ramos-Thuel, JP Lehoczy - Real-Time Systems Symposium, 1993., Proceedings., 1993 - ieeexplore.ieee.org

... n. Aperiodic **task** execution at **priority level** n + 1 is ... model permits the inclusion

of many **operating system** functions and **task** synchronization using ...

[Cited by 104](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

[Making paths explicit in the Scout operating system- *rutgers.edu \(PDF\)](#)

D Mosberger, LL Peterson - unix.org

... and Section 3 describes an implementa- tion of paths in the Scout **operating system**. ...

each router is a software module that im- plements a specific **task**, such as ...

[Cited by 295](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 46 versions](#)

[Real-time scheduling theory and Ada- *cmu.edu \(PDF\)](#)

L Sha, JB Goodenough - Mission-Critical Operating Systems, 1992 - books.google.com

... A hardware timer or the **operating system** clock interrupt ... the execution of higher

priority **tasks**, **task** T executes at the highest **priority level** of all ...

[Cited by 269](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 36 versions](#)

[IBM Power5 chip: A dual-core multithreaded processor- *psu.edu \(PDF\)](#)

R Kalla, B Sinharoy, JM Tendler - IEEE micro, 2004 - ieeexplore.ieee.org

... threads are at the lowest run- ning **priority (level 1)**, the ... As in the dormant state,

the **operating system** ... all the system's execut- ing **tasks** perform better ...

[Cited by 274](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 29 versions](#)

[\[PDF\]](#) [*A real-time Linux](#)

V Yodaiken, M Barabanov - Proceedings of the Linux Applications Development and ..., 1997 - www-md.e-technik.uni-rostock.de

... 280 KHZ no matter what we do with the **operating system**. ... of the RT-process at a low

priority level the process ... are preempted by a higher-priority **task** when its ...

[Cited by 113](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 43 versions](#)

[MANTIS OS: An embedded multithreaded operating system for wireless micro sensor platforms- *rosein.com \(PDF\)](#)

S Bhatti, J Carlson, H Dai, J Deng, J Rose, A ... - Mobile Networks and Applications, 2005 - Springer

... head and tail pointers for each **priority level** (5 by ... MANTIS OS : AN EMBEDDED

MULTITHREADED **OPERATING SYSTEM** ... Any **task** that is sufficiently long-lived during its ...

[Cited by 139](#) - [Related articles](#) - [Web Search](#) - [All 14 versions](#)

[CITATION] Linux Means Business: Introducing Real-Time Linux

M Barabanov, V Yodaiken - Linux Journal. February, 1997

[Cited by 93](#) - [Related articles](#) - [Web Search](#)

Fixed priority scheduling periodic tasks with varying executionpriority- *unican.es (PDF)

MG Harbour, MH Klein, JP Lehoczy - Real-Time Systems Symposium, 1991. Proceedings., Twelfth, 1991 - [ieeexplore.ieee.org](#)

... We make the following assumptions concerning the execution behavior of any single

task: Assumption 1: Subtasks executing at a given **priority level** can be ...

[Cited by 158](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

Fixed priority pre-emptive scheduling: An historical perspective

NC Audsley, A Burns, RI Davis, KW Tindell, AJ ... - Real-Time Systems, 1995 - Springer

... The application software comprising the computational part of a real-time system

is assumed to consist of n processes, where a process (or **task**) represents a ...

[Cited by 288](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

Eliminating receive livelock in an interrupt-driven kernel- *stanford.edu (PDF)

JC Mogul, KK Ramakrishnan - [usenix.org](#)

... begin by describing a typical **operating system's** structure for processing and

prioritizing network **tasks**. ... have a fixed Interrupt **Priority Level** (IPL), and ...

[Cited by 357](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 25 versions](#)

Monitor for priority level of task in information processing system

H Soga - US Patent 4,145,735, 1979 - Google Patents

... quently shows the frequency of use of the **priority level**. ... N and the abscissa shows

each **task** of priority ... possible to add on an **operating system** and interface ...

[Cited by 17](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Operating system for a multi-tasking operating environment

MS Fletcher, RP Semma - US Patent 5,012,409, 1991 - Google Patents

... Control is then given to the ment as follows refers to the use of the **operating**

system task scheduler 20 which executes **task** segments cur- in connection with ...

[Cited by 31](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Operating system architecture using multiple priority light weight kernel task based interrupt ...

M Bunnell - US Patent 5,469,571, 1995 - Google Patents

... level. The **operating system** kernel includes a scheduler that selects **tasks**

for execution based on relative **task priority level**. The ...

[Cited by 17](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] *Scheduling slack time in fixed priority pre-emptive systems

RI Davis, KW Tindell, A Burns - 1993 - [citeseerx.ist.psu.edu](#)

... one or more **tasks** of **priority level i** or ... data is available via the **operating**

system, (typically derived from data stored in a **task** control block ...

[Cited by 195](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 18 versions](#)

COSYN: Hardware-software co-synthesis of embedded systems- *york.ac.uk (PDF)

BP Dave, G Lakshminarayana, NK Jha - Proceedings of the 34th annual conference on Design ..., 1997 - [portal.acm.org](#)

... We also take into consideration the **operating system** overheads such as interrupt

overhead, context- switch, remote ... a. **Priority level** of sink **task t i** ...

[Cited by 240](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 15 versions](#)

On using priority inheritance in real-time databases- *kfupm.edu.sa (PDF)

J Huang, JA Stankovic, K Ramamritham, D Towsley - In Proc. Real-Time Systems Symposium, 1991 - [eprints.kfupm.edu.sa](#)

... and eventually return to its original **priority level** after using ... Unlike real-time

systems where **task** conict over ... built on top of the VAX/VMS **operating system**. ...

[Cited by 96](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 13 versions](#)

[PS] [*Real-time linux](#)

M Barabanov, V Yodaiken - Linux journal, 1996 - lahtermaher.org

... **priority level** = 4, stack size = 3000 bytes *//* pass 1 to ... work to be done, the RT **operating system** runs one ... So Linux is the lowest priority **task** of the RT ...

[Cited by 71](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 11 versions](#)

[Emulating soft real-time scheduling using traditional operatingsystem schedulers-](#) [*psu.edu](#) (PDF)

B Adelberg, H Garcia-Molina, B Kao - Real-Time Systems Symposium, 1994., Proceedings., 1994 - [ieeexplore.ieee.org](#)

... with our goal of setting process priorities and then letting the **operating system** handle everything ... If a new **task** arrives and no **priority level** is available ...

[Cited by 49](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 18 versions](#)

[PDF] [*A model for an intelligent operating system for executing image understanding tasks on a ...](#)

CH Chu, EJ Delp, LH Jamieson, HJ Siegel, FJ Weil, ... - Journal of Parallel and Distributed Computing, 1989 - [enr.colostate.edu](#)

... a unique name, an optional **priority level**, and an ... simple example image understanding **task** is presented ... parallel processor by the Intelligent **Operating System**. ...

[Cited by 26](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 6 versions](#)

[PDF] [*Preemptive priority based scheduling: An appropriate engineering approach](#)

A Burns - 1993 - [eprints.kfupm.edu.sa](#)

... It should be noted that a full **operating system** is not required, only a micro-kernel ... If a **task** attempts to run over its budget it has an exception raised to ...

[Cited by 150](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 17 versions](#)

[Thoth, a portable real-time operating system-](#) [*ucsd.edu](#) (PDF)

DR Cheriton, MA Malcolm, LS Melen, GR Sager - 1979 - [portal.acm.org](#)

... of the new process; the default **priority level** is 0 ... **Operating system** portability is aimed at a problem most ... Moreover a major **task** for the manufac- turer of a ...

[Cited by 145](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

[... and non-preemptive scheduling and execution of program threads in a multitasking operating system](#)

JA Farrell, SE Record, BK Wade - US Patent 5,247,675, 1993 - Google Patents

... be programmed to voluntarily relinquish control of its titasking **operating system**. ... have the same **priority level**. A **task** control block is ...

[Cited by 37](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

[Distributed scheduling of tasks with deadlines and resourcerequirements-](#) [*googlecode.com](#) (PDF)

K Ramamritham, JA Stankovic, W Zhao - IEEE Transactions on Computers, 1989 - [ieeexplore.ieee.org](#)

... When a **task** arrives at a node, the local scheduler at that node attempts to guarantee that the **task** will complete execution before its deadline, on that node. ...

[Cited by 271](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 9 versions](#)

[Atalanta: A new multiprocessor RTOS kernel for System-on-a-Chip Applications-](#) [*gatech.edu](#) (PDF)

DS Sun, DM Blough, VJ Mooney III - 2002 - [smartech.gatech.edu](#)

... The kernel level contains the simplest **operating system** routines, such as scheduling routines ... ID on which the **task** is running, the **task priority level**, and the ...

[Cited by 40](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 6 versions](#)

[Scheduling aperiodic tasks in dynamic priority systems-](#) [*psu.edu](#) (PDF)

M Spuri, G Buttazzo - Real-Time Systems, 1996 - Springer

... An **operating system** capable of guaranteeing and executing **tasks** ... already "allocated" to a **priority level** corresponding to its deadline when the **task** set has ...

[Cited by 258](#) - [Related articles](#) - [Web Search](#) - [GL Direct](#) - [All 20 versions](#)

[Implementing a general real-time scheduling framework in theRED-Linux real-time kernel-](#) [*kfupm.edu.sa](#) (PDF)

YC Wang, KJ Lin - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - [ieeexplore.ieee.org](#)

... the system builder to choose an **operating system** that may ... ecute at either an upper or lower band **priority level**. Upon release, each real-time **task** assumes its ...

[Cited by 92](#) - [Related articles](#) - [Web Search](#) - [All 19 versions](#)

Operating System Modifications for Task-Based Speed and Voltage- *kfuqm.edu.sa (PDF)

JR Lorch, AJ Smith - Proceedings of the 1st international conference on Mobile ..., 2003 - portal.acm.org

... it would run even when the **operating system** was upgraded. ... in Section 2.4: we consider

a **task** complete when ... the system above the idle **priority level** are blocked ...

[Cited by 48](#) - [Related articles](#) - [Web Search](#) - [All 12 versions](#)

Hardware implementation of a real-time **operating system**

T Nakano, A Utama, M Itabashi, A Shiomi, M Imai - TRON Project International Symposium, 1995., Proceedings of ... - ieeexplore.ieee.org

... of a Real-time **Operating System** ... on an FPGA implemen- tation, hardware portion of

these functionalities can be executed within 250ns and the **task** scheduling can ...

[Cited by 25](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

Programmable controller with multiple **priority level task** processing

MA Flood, MD Kalan, PN Preis, AL Peterson... - US Patent 5,193,189, 1993 - Google Patents

... 54] PROGRAMMABLE CONTROLLER WITH MULTIPLE **PRIORITY LEVEL TASK** PROCESSING [75 ... When

the **operating system** accesses the location at ... than any background **tasks** to be ...

[Cited by 43](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

The Click modular router- *psu.edu (PDF)

E Kohler, R Morris, B Chen, J Jannotti, MF ... - ACM Transactions on Computer Systems (TOCS), 2000 - portal.acm.org

... the Click IP router to handle specialized routing **tasks**, or use ... priority levels;

—fairness among the connections within each **priority level**; —RED dropping ...

[Cited by 328](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 67 versions](#)

System and method for dynamic resource management across tasks in real-time operating systems

D Culbert - US Patent 5,838,968, 1998 - Google Patents

... Backing Store: A reserved location in any of physical memory, disk drive, or

off-line storage used by the **operating system** to save **task** context state when the ...

[Cited by 24](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PS] ***Operating system** support for coexistence of real-time and conventional scheduling

DB Golub, CARNEGIE-MELLON UNIV PITTSBURGH PA ... - 1994 - reports-archive.adm.cs.cmu.edu

... real-time applications to make full use of the hardware and **operating system**. ... policies

use an array of 32 queues, one per **priority level**. ... **Task** priority values: ...

[Cited by 24](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 9 versions](#)

Rate monotonic vs. EDF: Judgment day- *sssup.it (PDF)

GC Buttazzo - Real-Time Systems, 2005 - Springer

... by assigning each **task** a fixed **priority level** inversely proportional ... deadline management

at the **task** level, because ... trend in some recent **operating system** is to ...

[Cited by 127](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 19 versions](#)

Compiler support for software-based cache partitioning- *kfuqm.edu.sa (PDF)

F Mueller - ACM Sigplan Notices, 1995 - portal.acm.org

... for n **tasks**, it suffices to create p partitions, one for each used **priority level**. ...

The **operating system** can be handled as a separate **task** with its own cache ...

[Cited by 81](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 12 versions](#)

Information processing system having power saving control of the processor clock

N Suzuki, S Uno - US Patent 5,189,647, 1993 - Google Patents

... 57] ABSTRACT An information processing system operates under a multi-tasking **operating**

system in which each **task** to be run is assigned a **priority level**. ...

[Cited by 30](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Worst-case execution time analysis of the RTEMS real-time operatingsystem- *psu.edu (PDF)

A Colin, I Puaut, R IRISA - Real-Time Systems, 13th Euromicro Conference on, 2001., 2001 - ieeexplore.ieee.org

... **operating system** is that it contains low level code to manage the underlying hardware ...

the source code of RTEMS, all system calls related to **task** man- agement ...

[Cited by 62](#) - [Related articles](#) - [Web Search](#) - [All 11 versions](#)

High-performance **operating system** primitives for robotics and real-time control systems- *stevens-tech.edu (PDF)

K Schwan, T Bihari, BW Weide, G Taulbee - ACM Transactions on Computer Systems (TOCS), 1987 - portal.acm.org

... reconfiguration [2, 31, 371. Similarly, **operating system** primitives for **task** control, intertask communication, and device operation are needed. ...

Cited by 58 - Related articles - Web Search - Library Search - All 12 versions

Apparatus and method for interrupt handling in a multi-threaded **operating system** kernel

SR Kleiman - US Patent 5,515,538, 1996 - Google Patents

... threads for the entire interrupt processing **task**, and as ... the blocked thread give its dispatching **priority level** to the ... of the SunOS 5.0 **Operating System** may be ...

Cited by 54 - Related articles - Web Search - All 2 versions

Engineering and analysis of fixed priority schedulers

DI Katcher, H Arakawa, JK Strosnider - IEEE Transactions on Software Engineering, 1993 - ieeeexplore.ieee.org

... implementations, we must fully understand the mechanisms of the **operating system** and the ... 4) An idle **task** runs at the lowest **priority level** when no other ...

Cited by 167 - Related articles - Web Search - BL Direct - All 8 versions

[PDF] *TrueTime: Real-time control system simulation with MATLAB/Simulink

D Henriksson, A Cervin, KE Årzén - Proceedings of the Nordic MATLAB Conference, Copenhagen, ..., 2003 - control.lth.se

... The **operating system** typically uses multipro- gramming to multiplex the execution ... much the same way as a **task**, but is scheduled on a higher **priority level**. ...

Cited by 37 - Related articles - View as HTML - Web Search - All 2 versions

SIFT: Design and analysis of a fault-tolerant computer for aircraft control

JH Wensley, L Lamport, J Goldberg, MW Green, KN ... - Proceedings of the IEEE, 1978 - ieeeexplore.ieee.org

... The input data to each iteration of a **task** is the output data produced by the previous iteration of some collection of **tasks** (which may include the **task** itself ...

Cited by 374 - Related articles - Web Search - All 9 versions

Priority in DBMS resource scheduling- *psu.edu (PDF)

MJ Carey, R Jauhari, M Livny - Proceedings of the 15th VLDB Conference, 1989 - books.google.com

... Here, **task** priorities are determined internally (ie, assigned by ... schedules the CPU; the **operating system** or DBMS ... is one queue per **priority level** for buffering ...

Cited by 151 - Related articles - Web Search - Library Search - All 6 versions

[PDF] *Generalized rate-monotonic scheduling theory: A framework for developing real-time systems

L Sha, R Rajkumar, SS Sathaye - PROCEEDINGS-IEEE, 1994 - cs.ust.hk

... in our example as the station backplane and **operating system**, respectively. ... Section V describes a comprehensive example that illustrates **task** scheduling within ...

Cited by 201 - Related articles - View as HTML - Web Search - BL Direct - All 4 versions

[PDF] *Timing analysis for fixed-priority scheduling of hard real-time systems

MG Harbour, MH Klein, JP Lehoczky - IEEE Transactions on Software Engineering, 1994 - ctr.unican.es

... premise since periodic **tasks** are generally initiated by clock interrupt service routines, which usually execute at a **priority level** different from the **task**. ...

Cited by 131 - Related articles - View as HTML - Web Search - BL Direct - All 9 versions

Feasibility analysis of fault-tolerant real-time **task** sets

A Burns, R Davis, S Punnekkat - Real-Time Systems, 1996., Proceedings of the Eighth ..., 1996 - ieeeexplore.ieee.org

... has been extended to take account of the **operating system** kernel overheads ... by simple re-execution of the affected **task** at its ori- ginal **priority level**. ...

Cited by 65 - Related articles - Web Search - All 6 versions

The design, implementation and evaluation of SMART: A scheduler for multimedia applications- *kfupm.edu.sa (PDF)

J Nieh, MS Lam - ACM SIGOPS Operating Systems Review, 1997 - portal.acm.org

... give interactive and real-time **tasks** bet- ter ... of the scheduler in the Solaris UNIX **operating system**. ... the applications in the default **priority level** with equal ...

Cited by 298 - Related articles - Web Search - Library Search - BL Direct - All 48 versions

Open system architecture modular tool kit for motion and machining process control

NA Erol, Y Altintas, MR Ito, SS Inc, BC Burnaby - IEEE/ASME transactions on mechatronics, 2000 - [ieeexplore.ieee.org](#)

... moved to the ready queue in accordance with its **priority level**. ... be considered to be a soft real-time **operating system**. ... time is not adequate, the **task** does not ...

[Cited by 31](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 3 versions](#)

[PDF] *ERCOS: an **operating system** for automotive applications

S Poledria, T Mocken, J Schiemann, T Beck - 1996 - [cs.umbc.edu](#)

... also possible to implement switching points by **operating system** calls ... cooperative scheduler is treated as a single **task** at the lowest **priority level** of the ...

[Cited by 22](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 4 versions](#)

[PDF] *Sources of unbounded priority inversions in real-time systems and a comparative study of possible ...

S Davari, L Sha, Research Institute for Computing ... - ACM SIGOPS Operating Systems Review, 1992 - [ntrs.nasa.gov](#)

... inversion is the term used to describe the situation when a higher priority **task's** execution ... However, when there is resource conflict, a **task** is allowed ...

[Cited by 26](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 6 versions](#)

[PDF] *BERT: A scheduler for best effort and realtime tasks

A Bavier, L Peterson, D Mosberger - Department of Computer Science, Princeton University, ... - [citeseerx.ist.psu.edu](#)

... BERT has been designed to run in the Scout **operating system** [9]; Section 3.1 ... a "common currency" managing both realtime and best effort **tasks**; Section 3.2 ...

[Cited by 46](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 9 versions](#)

New results on fixed priority aperiodic servers- *psu.edu (PDF)

G Bernat, A Burns - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - [ieeexplore.ieee.org](#)

... provides a standard API to the **operating system**, of particular ... this hypothesis allowing a server at any **priority level**. ... A **task** scheduled with a DS has its ...

[Cited by 49](#) - [Related articles](#) - [Web Search](#) - [All 11 versions](#)

[PDF] *Emeralds-osek: A small real-time **operating system** for automotive control and monitoring

KM Zuberi, P Pillai, KG Shin, T Imai, W Nagaura, S ... - SAE transactions, 2000 - [stockholm1.mit.edu](#)

... Interrupt handling is an important part of any **operating system**, but takes ... BCC1 and ECC1 are limited to having only one **task** per **priority level**, while BCC2 ...

[Cited by 12](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 9 versions](#)

How does control timing affect performance? Analysis and simulation of timing using Jitterbug and ...- *ilh.se (PDF)

A Cervin, D Henriksson, B Lincoln, J Eker, KE ... - IEEE Control Systems Magazine, 2003 - [ieeexplore.ieee.org](#)

... inter- faces). The **operating system** typically uses multi- programming to multiplex the execution of the various **tasks**. The CPU time ...

[Cited by 133](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 8 versions](#)

Toward a discipline of real-time programming- *europrog.ru (PDF)

N Wirth - 1977 - [portal.acm.org](#)

... The first step constitutes a **task** in "ordinary" multipro- gramming with -more or ... essence is that the shared processor, when operating at **priority level** p, is ...

[Cited by 147](#) - [Related articles](#) - [Web Search](#) - [All 10 versions](#)

Guidelines for automated implementation of executable objectoriented models for real-time embedded ...- *kfupm.edu.sa (PDF)

M Saksena, P Freedman, P Rodziewicz - Real-Time Systems Symposium, 1997. Proceedings., The 18th ..., 1997 - [ieeexplore.ieee.org](#)

... on thread priorities and the scheduling of threads by the underlying **operating system**. ... recursively considering the output event set for the **tasks** handling the ...

[Cited by 56](#) - [Related articles](#) - [Web Search](#) - [All 16 versions](#)

A simple load balancing scheme for **task** allocation in parallel machines- *kfupm.edu.sa (PDF)

L Rudolph, M Slivkin-Allalouf, E Upfal - Proceedings of the third annual ACM symposium on Parallel ..., 1991 - [portal.acm.org](#)

... levels can be implemented with the schemes presented here used within each distinct **priority level**. Since **tasks** may closely interact and since there may ...

[Cited by 99](#) - [Related articles](#) - [Web Search](#) - [All 14 versions](#)

Power-aware QoS management in web servers- *virginia.edu (PDF)

V Sharma, A Thomas, T Abdelzaher, K Skadron, Z Lu - 24th IEEE Real-Time Systems Symposium, 2003. RTSS 2003, 2003 - [ieeexplore.ieee.org](#)

... FIFO enables FIFO scheduling within each **priority level** with preemp ... to use the standard

Linux **operating system** and a ... rameters like the arrival time of the **task**. ...

[Cited by 64](#) - [Related articles](#) - [Web Search](#) - [All 17 versions](#)

POSIX-compatible application-defined scheduling in MaRTE OS- *unicma.es (PDF)

MA Rivas, MG Harbour - [ieeexplore.ieee.org](#)

... by a faulty scheduler executing at a lower **priority level**. ... are also scheduled by the **operating system**, but before they ... The CBS assigns each soft **task** a maximum ...

[Cited by 39](#) - [Related articles](#) - [Web Search](#) - [All 9 versions](#)

The Stealth distributed scheduler

P Krueger, R Chawla - Distributed Computing Systems, 1991., 11th International ..., 1991 - [ieeexplore.ieee.org](#)

... While prioritized CPU schedulers are common, no previous **operating system** has included ...

way, pages can be 'stolen' from the low-**priority level** if needed at ...

[Cited by 120](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

[CITATION] Multimedia/realtime extensions for the Mach **operating system**

J Nakajima, M Yazaki, H Matsumoto - Proceedings of the... USENIX Conference, 1991 - The Association

[Cited by 26](#) - [Related articles](#) - [Web Search](#)

An overview of the real-time CORBA specification- *klupm.edu.sa (PDF)

DG Schmidt, F Kuhns - Computer, 2000 - [ieeexplore.ieee.org](#)

... (In the figure, red indicates the **operating system** and I ... such as high- versus low-priority **tasks**, 1 and ... the amount of work performed at a given **priority level**. ...

[Cited by 238](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 39 versions](#)

Method and apparatus for optimizing user response time in a priority preemptive **operating system**

TC Waldron III - US Patent 5,428,789, 1995 - Google Patents

... indicator displaying a **task priority level** in accordance with policies of said priority pre-emptive **operating system**, said **task priority level** corresponding to ...

[Cited by 10](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

A fixed-priority-driven open environment for real-time applications- *gatech.edu (PDF)

TW Kuo, CH Li - Real-Time Systems Symposium, 1999. Proceedings. The 20th ..., 1999 - [ieeexplore.ieee.org](#)

... A 0 . The scheduler provided by the **operating system** is called the OS ... the priority of the **task** which is executing ... A **priority level** P i is active if P s P i . A ...

[Cited by 40](#) - [Related articles](#) - [Web Search](#) - [All 10 versions](#)

Evolving Mach 3.0 to a migrating thread model- *psu.edu (PDF)

B Ford, J Lepreau - Proceedings of the Winter 1994 USENIX Technical Conference ..., 1994 - [usenix.org](#)

... guarantee in practice, especially if any user-mode **task** can set ... expect migratingthreads to simplifythe server, because the original **operating system** on which ...

[Cited by 116](#) - [Related articles](#) - [Web Search](#) - [All 11 versions](#)

Dynamic scheduling for soft real-time distributed object systems- *ucr.edu (PS)

V Kalogeraki, PM Melliar-Smith, LE Moser - Third IEEE International Symposium on Object-Oriented Real- ..., 2000 - [ieeexplore.ieee.org](#)

... Local Scheduler Profiler Processor Local Dispatcher **OPERATING SYSTEM** CORBA

ORB CORBA ORB **Task** graph Figure 1: The Scheduling Components. ...

[Cited by 39](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

Cello: A Disk Scheduling Framework for Next Generation Operating Systems*- *psu.edu (PDF)

P Shenoy, HM Vin - Real-Time Systems, 2002 - Springer

... applications: These applications require the **operating system** to provide ... These two **tasks** naturally map to a ... classes at the same **priority level** receive service ...

[Cited by 211](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 19 versions](#)

Controlled scheduling of program threads in a multitasking **operating system**

JA Farrell, SE Record, BK Wade - US Patent 5,630,128, 1997 - Google Patents

... gram threads performs a specific **task** While a ... resides in a multitasking **operating system** the thread ... each thread's **priority level** and dispatch class in which ...

[Cited by 18](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

[PDF] *Adding instruction cache effect to schedulability analysis of preemptive real-time systems

JV Busquets-Mataix, JJ Serrano, R Ors, P Gil, A ... - 1995 - citeseerx.ist.psu.edu

... real traces, and takes into account the **operating system** im- pact ... ie **tasks** do not share the same **priority level**). ... time for the highest priority **task** is trivial ...

[Cited by 82](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [Library Search](#) - [All 10 versions](#)

Rate monotonic analysis for real-time systems- *cmu.edu [PDF]

L Sha, MH Klein, JB Goodenough - Foundations of Real-Time Computing: Scheduling and Resource ..., 1991 - books.google.com

... theory for its Hard Real-Time **Operating System** Project. ... the execution of higher priority **tasks**, **task** T executes at the highest **priority level** of all ...

[Cited by 80](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 8 versions](#)

*POWER5 system microarchitecture

B Sinharoy, RN Kalla, JM Tendler, RJ Eickemeyer, ... - IBM Journal of Research and Development, 2005 - research.ibm.com

... To the **operating system**, the chip appears as a four ... **task** than to a thread running a background **task**. ... threads are at the lowest running **priority (level 1)**, the ...

[Cited by 128](#) - [Related articles](#) - [Cached](#) - [Web Search](#) - [BL Direct](#) - [All 6 versions](#)

Modelling **operating system** structures by timed stream processing functions- *kfupm.edu.sa [PDF]

M Broy, C Dendorfer - Journal of Functional Programming, 2008 - Cambridge Univ Press

... Modelling **operating system** structures by ... Modelling **operating system** structures by stream processing functions is certainly not a new idea. ...

[Cited by 20](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [All 15 versions](#)

[PDF] *Dynamic and aggressive scheduling techniques for power-aware real-time systems

H Aydin, R Melhem, D Mossé, PM Alvarez - Proceedings of the 22nd IEEE Real-Time Systems Symposium (..., 2001 - cs.pitt.edu

... indicator of the "default" speed of 5 6 . For each **task** that is dispatched, the **operating system** sets E 6 G Ei6 , prior to any dynamic speed adjustment. ...

[Cited by 200](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 15 versions](#)

Scheduling on the Tera MTA

G Alverson, S Kahan, R Korry, C McCann, B Smith - Lecture Notes in Computer Science, 1995 - Springer

... The **operating system** schedulers distinguish between large, parallel ... Typically, a **task's** importance is represented by the **priority level** it is ...

[Cited by 64](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 4 versions](#)

The human-robot interaction **operating system**- *nasa.gov [PDF]

T Fong, C Kunz, LM Hiatt, M Bugajska - Proceedings of the 1st ACM SIGCHI/SIGART conference on Human ..., 2006 - portal.acm.org

... 1: The Human-Robot Interaction **Operating System** (HRI/OS ... working (ie, waiting for a **task** to be ... by query attributes (**priority level**, expiration time, etc.), query ...

[Cited by 23](#) - [Related articles](#) - [Web Search](#) - [All 13 versions](#)

Fixed priority scheduling theory for hard real-time systems

JP Lehoczky, L Sha, JK Strosnider, H Tokuda - Foundations of Real-Time Computing: Scheduling and Resource ..., 1991 - books.google.com

... The ARTS **operating system** supports the scheduling theory de- scribed in ... capacity and executes at the **priority level** of the highest priority periodic **task**. ...

[Cited by 62](#) - [Related articles](#) - [Web Search](#)

Priority inheritance in soft real-time databases

J Huang, JA Stankovic, K Ramamritham, D Towsley, B ... - Real-Time Systems, 1992 - Springer

... eventually returns to its original **priority level** after releasing ... embedded real-time systems where **task** conflicts over ... on top of the VAX/VMS **operating system**. ...

[Cited by 73](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

Hartik 3.0: A portable system for developing real-time applications

G Lamastra, G Lipari, G Buttazzo, A Casile, F ... - Proceedings-Fourth International Workshop on Real-Time ..., 1997 - [ieeexplore.ieee.org](#)

... of the kernel, the Linux **operating system** is used as ... in three queues having different

priority level: the highest ... queue contains all hard **tasks** (both periodic ...

[Cited by 27](#) - [Related articles](#) - [Web Search](#) - [All 7 versions](#)

Task scheduling in a multicomputer system

DF Cameron, TE Merrow, PR Pierce - US Patent 5,325,526, 1994 - Google Patents

... 28, 1994 [54] **TASK SCHEDULING IN A MULTICOMPUTER SYSTEM** [75] Inventors: Donald F.

Cameron; Thomas E. Merrow; Paul R. Pierce, all of Portland, Oreg. ...

[Cited by 38](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Operating system issues for continuous media- *psu.edu (PDF)

H Schulzrinne - Multimedia Systems, 1996 - Springer

... The **priority level** is adjusted only if a process exhausts ... and Layland show that, for periodic **tasks**, n ... EDF scheduling within the UNIX **operating system** has been ...

[Cited by 25](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 20 versions](#)

Reducing problem-solving variance to improve predictability

CJ Paul, A Acharya, B Black, JK Stroenider - 1991 - [portal.acm.org](#)

... Using **operating system** primitives, CROPS5 can run at any **priority level** while still guaranteeing dead- lines of other **tasks** in the system. ...

[Cited by 48](#) - [Related articles](#) - [Web Search](#) - [All 8 versions](#)

[PDF] *Using Windows NT for real-time applications: Experimental observations and recommendations

K Ramamritham, C Shen, O Gonzalez, S Sen, SB ... - Proceedings of the Fourth IEEE Real-Time Technology and ..., 1998 - [ssrc.cse.ucsc.edu](#)

... time applications, a real-time **operating system** ought to ... a synergistic manner, the needs of **tasks** having a ... class of its process and the **priority level** of the ...

[Cited by 81](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 28 versions](#)

Task control means for a multi-tasking data processing system

PY Teng - US Patent 4,658,351, 1987 - Google Patents

... is stored in a **task** queue corresponding to the **task's priority level**. ... of the **task** control blocks in a **task** queue ... Q. OL <f s 4i w_ * Si < V **OPERATING SYSTEM** 0 u ...

[Cited by 80](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

Borrowed-virtual-time (BVT) scheduling: supporting latency-sensitive threads in a general-purpose ...- *ucsc.edu (PDF)

KJ Duda, DR Chertov - ACM SIGOPS Operating Systems Review, 1999 - [portal.acm.org](#)

... Most general-purpose **operating system** processor sched- ulers just provide fair sharing of the CPU among competing **tasks**, with limited support for different ...

[Cited by 151](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 38 versions](#)

CASPER: Concurrent hardware-software co-synthesis of hard real-timeaperiodic and periodic ...- *eda-online.co.uk (PDF)

BP Dave, NK Jha - Design, Automation and Test in Europe, 1998., Proceedings, 1998 - [ieeexplore.ieee.org](#)

... Embedded system specifications are generally represented by acyclic **task** graphs. ...

Many researchers have addressed co-synthesis of periodic **task** graphs. ...

[Cited by 30](#) - [Related articles](#) - [Web Search](#) - [All 12 versions](#)

Instruction level mechanisms for accurate real-time task scheduling- *umich.edu

RA Voiz - [deepblue.lib.umich.edu](#)

... the scheduler in a real-time **operating system** [3]. In ... maintain several priority queues, one for each **priority level**. ... at the priority of the **task** (presumed to ...

[Cited by 21](#) - [Related articles](#) - [Cached](#) - [Web Search](#) - [All 6 versions](#)

Multi-processor programmable interrupt controller system

DG Carson, HD D'hooge, KC Kahn - US Patent 5,283,904, 1994 - Google Patents

Page 1. US005283904A United States Patent Carson et al. [ii] Patent Number:

[45] Date of Patent: 5,283,904 Feb. 1, 1994 [54] MULTI ...

[Cited by 48](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Mantis: System support for multimodal networks of in-situ sensors- *psu.edu (PDF)

H Abrach, S Bhatti, J Carlson, H Dai, J Rose, A ... - Proceedings of the 2nd ACM international conference on ..., 2003 - portal.acm.org
... compresses a classic multithreaded layered **operating system** design into ... tail pointers
for each **priority level** (5 by ... the hardware to accomplish a given **task**. ...
[Cited by 142](#) - [Related articles](#) - [Web Search](#) - [All 25 versions](#)

Stack-based scheduling of realtime processes- *cmu.ac.kr (PDF)

TP Baker - Real-Time Systems, 1991 - Springer
... Moreover, the problem of predicting schedulability of peri- odic **task** systems using
this technique does not appear to have been formally addressed. ...
[Cited by 462](#) - [Related articles](#) - [Web Search](#) - [All 5 versions](#)

HRT-HOOD: A structured design method for hard real-time systems- *york.ac.uk (PDF)

A Burns, AJ Wellings - Real-Time Systems, 1994 - Springer
... construct periodic activities out of some more primitive "**task**" activity produces ...
for the implementation language and the underlying **operating system** (or kernel ...
[Cited by 250](#) - [Related articles](#) - [Web Search](#) - [Library Search](#) - [BL Direct](#) - [All 16 versions](#)

Mechanism for passing messages between several processors coupled through a shared intelligent ...

H Alaiwan - US Patent 5,357,612, 1994 - Google Patents
... the requested input, and the **priority level** of other ... to be retrieved by a **task** that
will ... MOS functions decomposition, every Local **Operating system** manages its ...
[Cited by 36](#) - [Related articles](#) - [Web Search](#) - [All 4 versions](#)

Scheduling techniques for reducing leakage power in hard real-time systems

YH Lee, KP Reddy, CM Krishna - Real-Time Systems, 2003. Proceedings. 15th Euromicro ..., 2003 - ieeexplore.ieee.org
... by any soft **task** executing at a **priority level** in the ... mode must be done gracefully
under **operating system** control ... **Task** periods are selected from the range 10 ms ...
[Cited by 41](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

Method and apparatus for providing an enhanced programmable priority interrupt controller

M Jayakumar - US Patent 5,511,200, 1996 - Google Patents
... to be able to change the **priority level** at which ... example, the Microsoft Windows NT
Operating System utilizes thirty ... be assigned to any device or **task** are widely ...
[Cited by 20](#) - [Related articles](#) - [Web Search](#) - [All 2 versions](#)

[PDF] *The performance of μ -kernel-based systems

H Hartig, M Hohmuth, J Liedtke, S Schonberg, J ... - 16th ACM Symposium on Operating System Principles (SOSP), 1997 - inso.tuwien.ac.at
... problem of porting an existing mono- lithic **operating system** to a μ ... the bottom-half
thread on a **priority level** above that ... is im- plemented as an L4 **task**, ie an ...
[Cited by 258](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#) - [All 68 versions](#)

[PDF] *Vsched: Mixing batch and interactive virtual machines using periodic real-time scheduling

B Lin, P Dinda - Proceedings of ACM/IEEE SC 2005 (Supercomputing), 2005 - cs.northwestern.edu
... kernel and requires that the hosted **operating system** be ported ... No other processes
at this **priority level** are allowed ... Since a **task** can miss its deadline only at ...
[Cited by 66](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 13 versions](#)

[PDF] *A library implementation of POSIX threads under UNIX

F Mueller - Proceedings of the USENIX Conference, 1993 - moss.csc.ncsu.edu
... can be used to implement Ada **tasks** or to ... Few **Operating System** Calls: Since calls
to the operating systems ... handlers have to execute at the **priority level** of the ...
[Cited by 198](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 20 versions](#)

The arts real-time object model

CW Mercer, H Tokuda - Real-Time Systems Symposium, 1990. Proceedings., 11th, 1990 - ieeexplore.ieee.org
... model is more appropriate for a real-time **operating system**. ... allow the system to manage
the **task** set in ... thread priority is raised to the **priority level** of the ...
[Cited by 33](#) - [Related articles](#) - [Web Search](#) - [All 3 versions](#)

[PDF] [*User level scheduling of communicating real-time tasks](#)

C Shen, O Gonzalez, K Ramamritham, I Mizunuma, H ... - Proceedings of the Fifth IEEE Real-Time Technology and ..., 1999 - merl.com

... **operating system**. Thus, we assign and manage **tasks'** priorities explicitly inside our server, while providing the users with the abil- ity to specify **task** timing ...

[Cited by 15](#) - [Related articles](#) - [View as HTML](#) - [Web Search](#) - [All 10 versions](#)

[Power-aware scheduling for periodic real-time tasks- *pitt.edu \(PDF\)](#)

H Aydin, R Melhem, D Mosse, P Mejia-Alvarez - IEEE Transactions on Computers, 2004 - ieeexplore.ieee.org

... the application code, in order to call explicitly **Operating System** services for ... CPU time (slack) to the first **task** at the appropriate **priority level**, in a ...

[Cited by 127](#) - [Related articles](#) - [Web Search](#) - [BL Direct](#) - [All 18 versions](#)

Key authors: [A Burns](#) - [M Barabanov](#) - [L Sha](#) - [R Davis](#) - [J Lehoczky](#)

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